

(1/14)

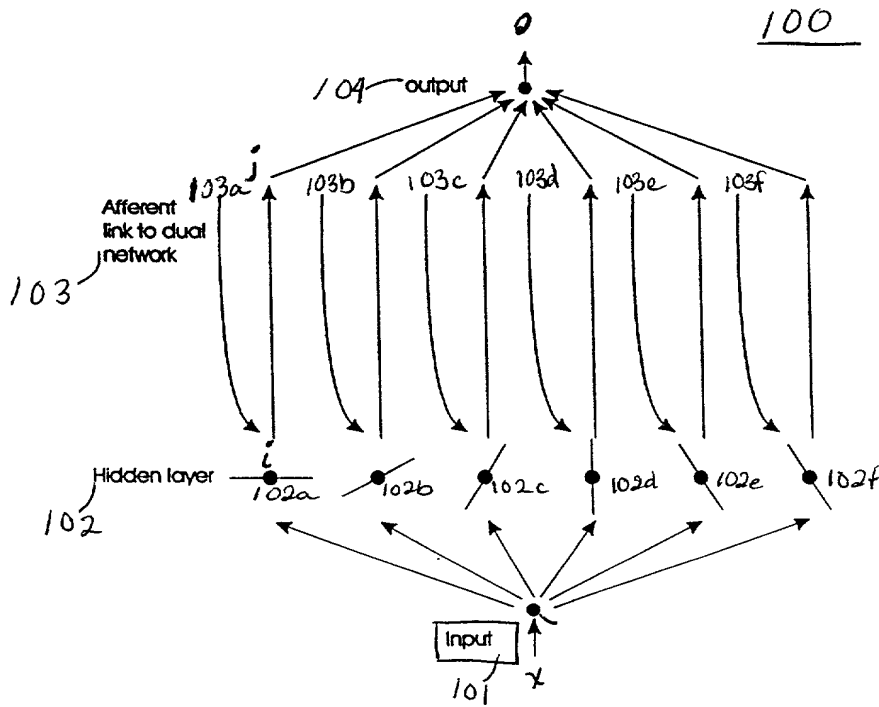


Figure 1

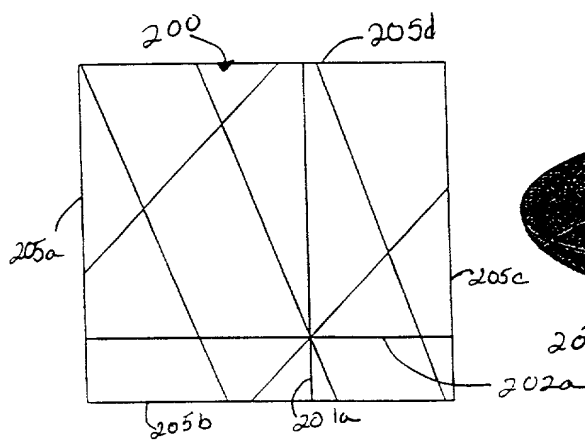


Figure 2a

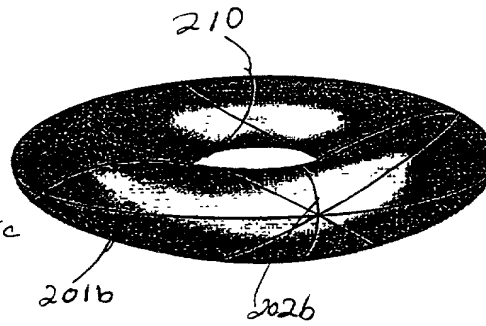


Figure 2b

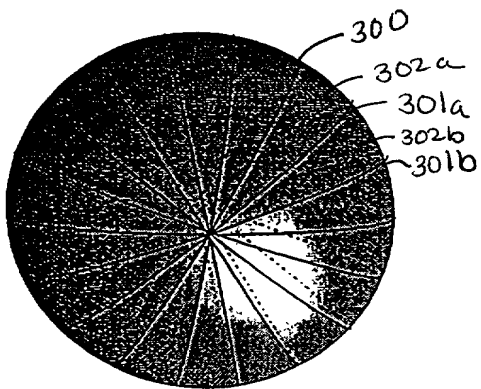


Figure 3a

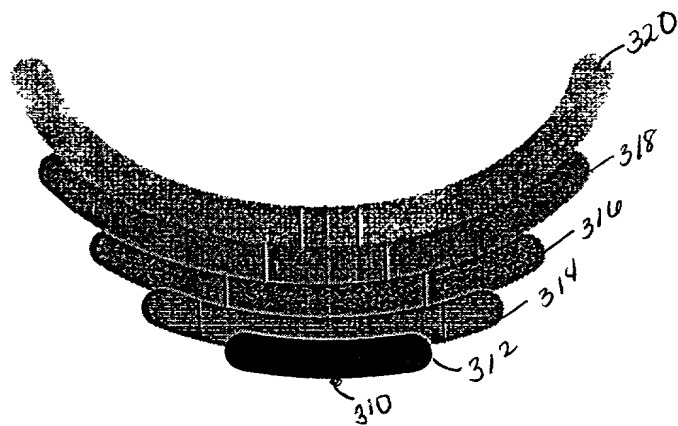


Figure 3b

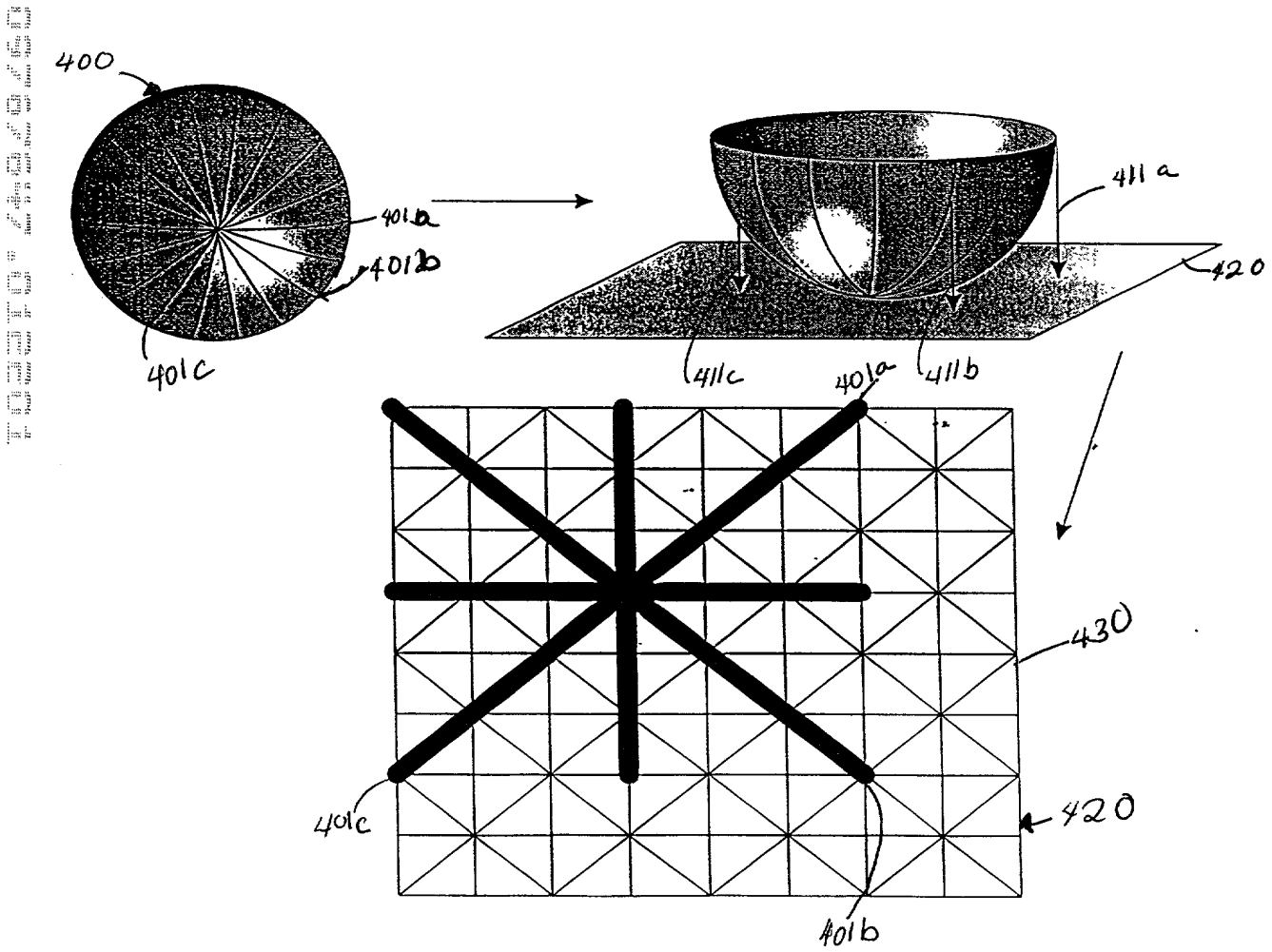


Figure 4

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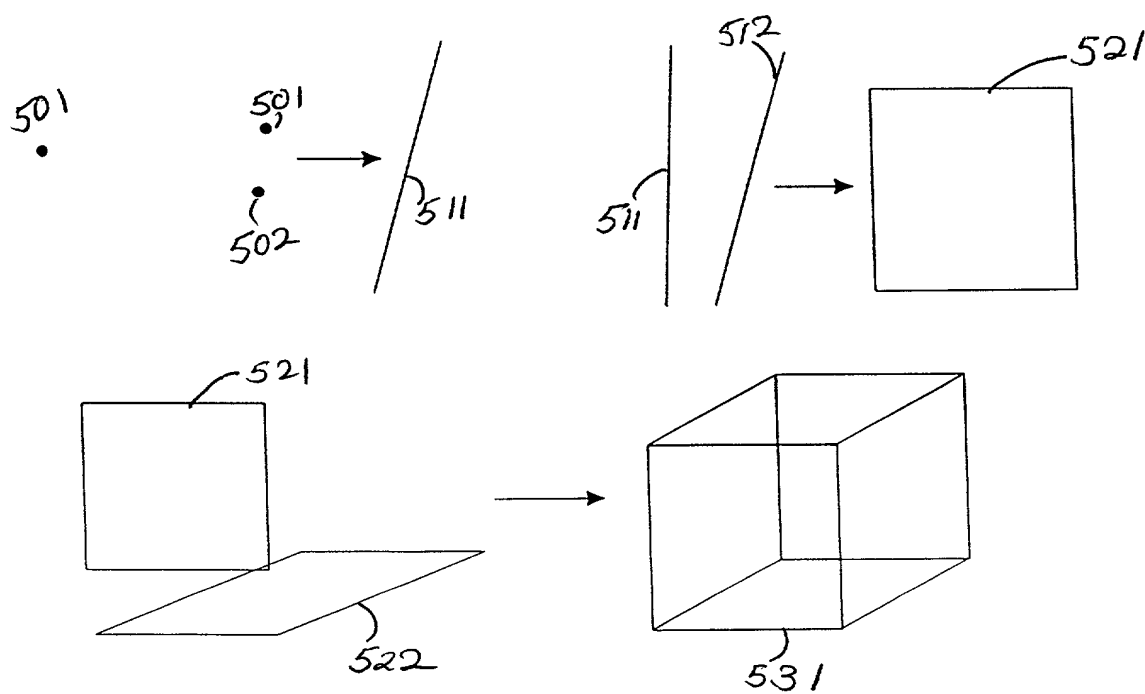


Figure 5

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600

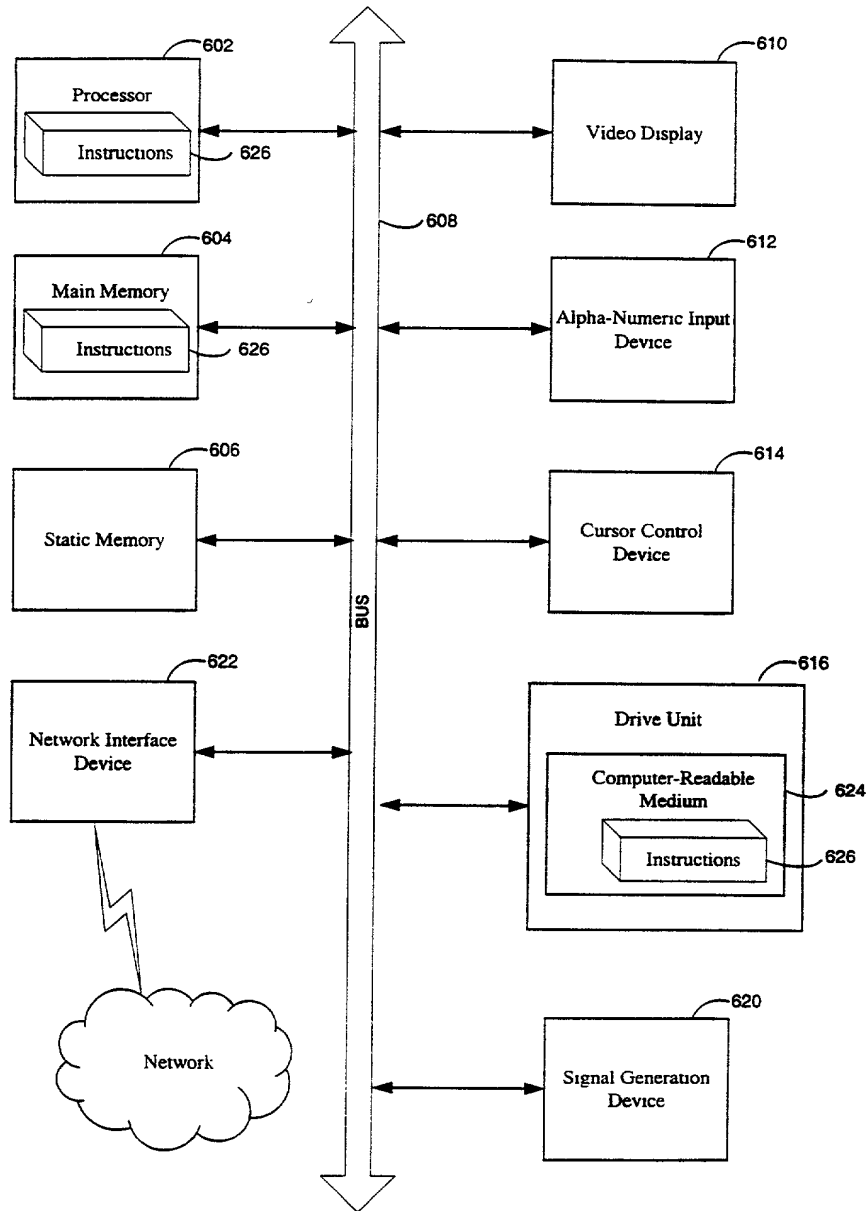


Figure 6

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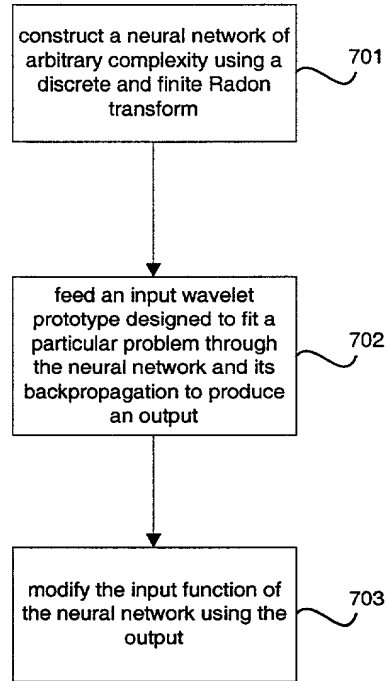


Figure 7

FIG. 8 is a block diagram of a system 800 for processing input data. The system 800 includes a Designing Module 810, a Feeder 820, a Neural Network 840, a Neural Network Constructor 830, and a Modifier Module 850. The Designing Module 810 provides input data to the Feeder 820 via an Input Wavelet. The Feeder 820 provides input data to the Neural Network 840 via an Input Wavelet. The Neural Network 840 provides output data to the Modifier Module 850. The Neural Network Constructor 830 provides input data to the Neural Network 840.

800

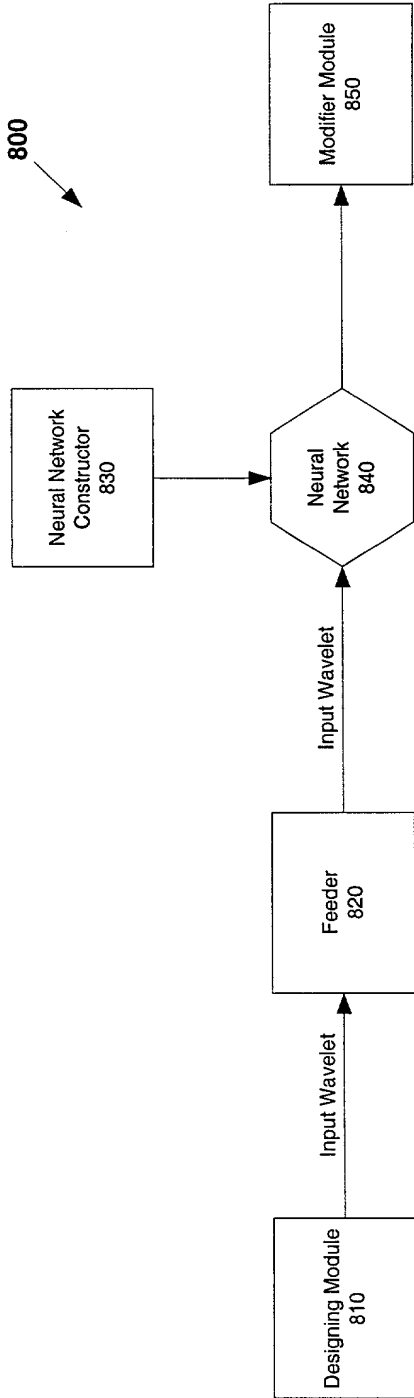


Figure 8



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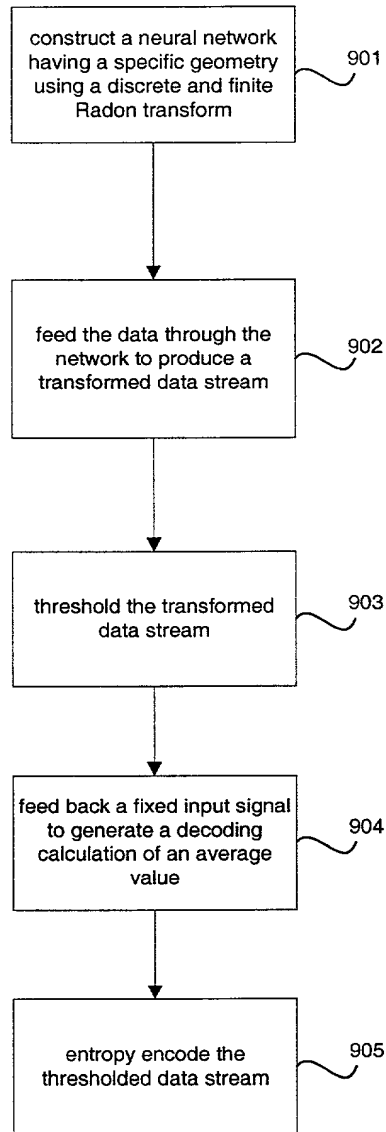
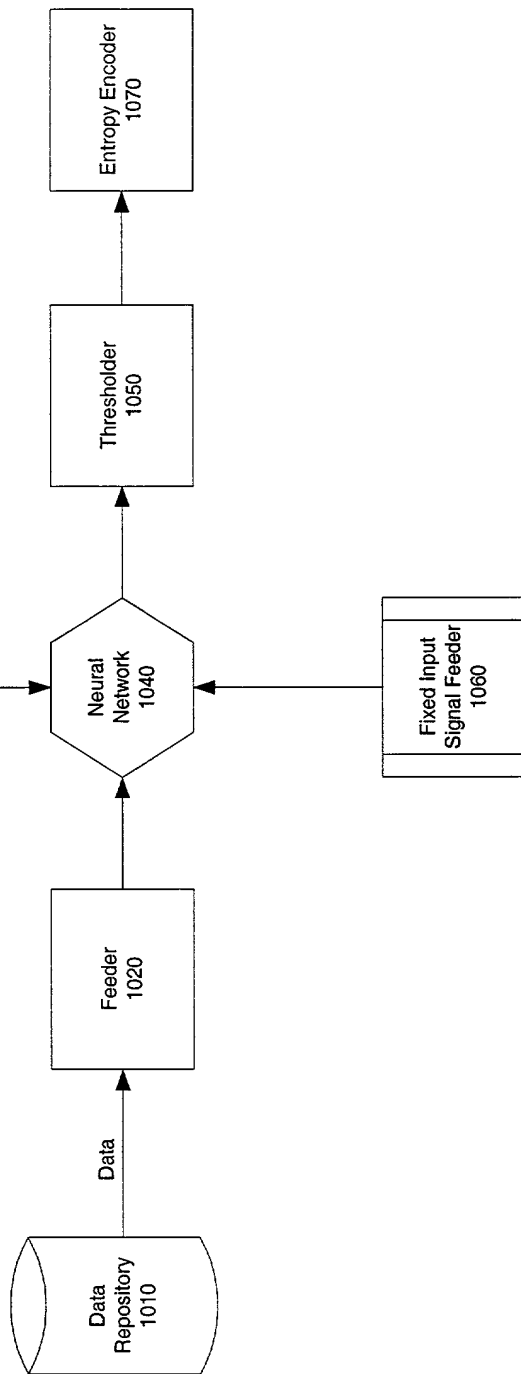


Figure 9

FIG. 10 is a block diagram of a system 1000 for processing data. The system 1000 includes a data repository 1010, a data feeder 1020, a neural network 1040, a neural network constructor 1030, a fixed input signal feeder 1060, a threshold 1050, and an entropy encoder 1070. The data repository 1010 provides data to the data feeder 1020, which feeds the neural network 1040. The neural network constructor 1030 also feeds the neural network 1040. The fixed input signal feeder 1060 provides a fixed input signal to the neural network 1040. The neural network 1040 outputs a result to the threshold 1050, which then feeds the entropy encoder 1070.

1000



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Figure 10

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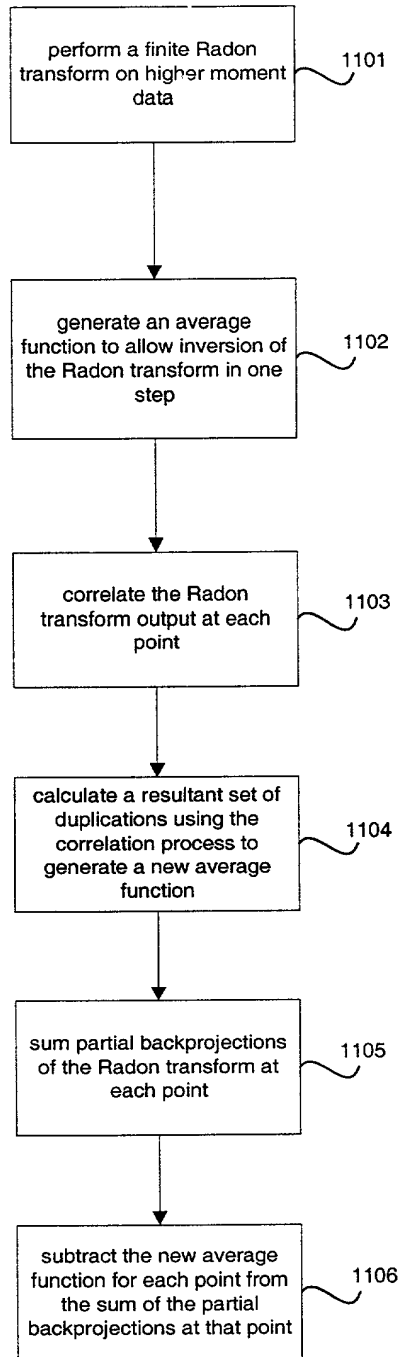


Figure 11

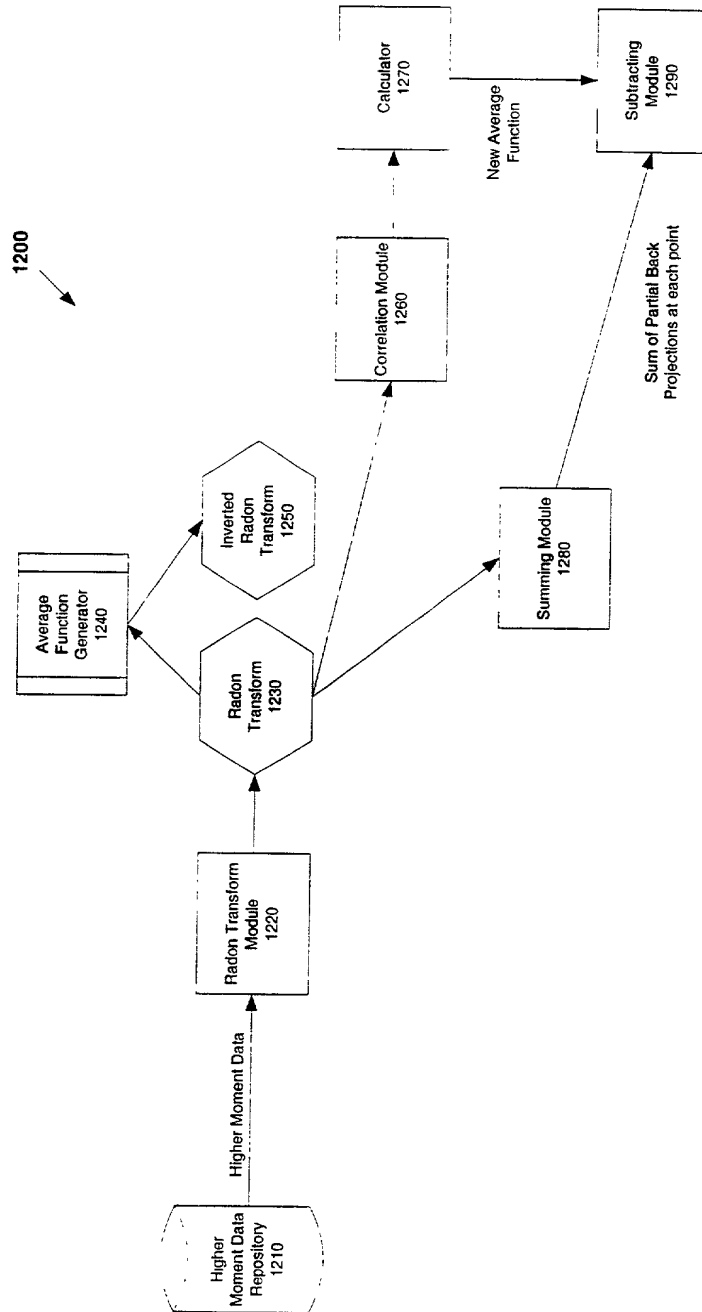


Figure 12

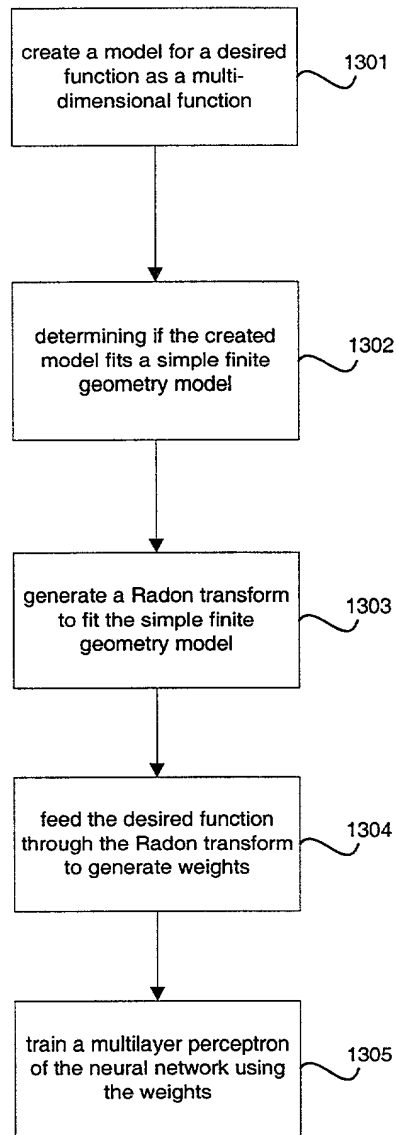
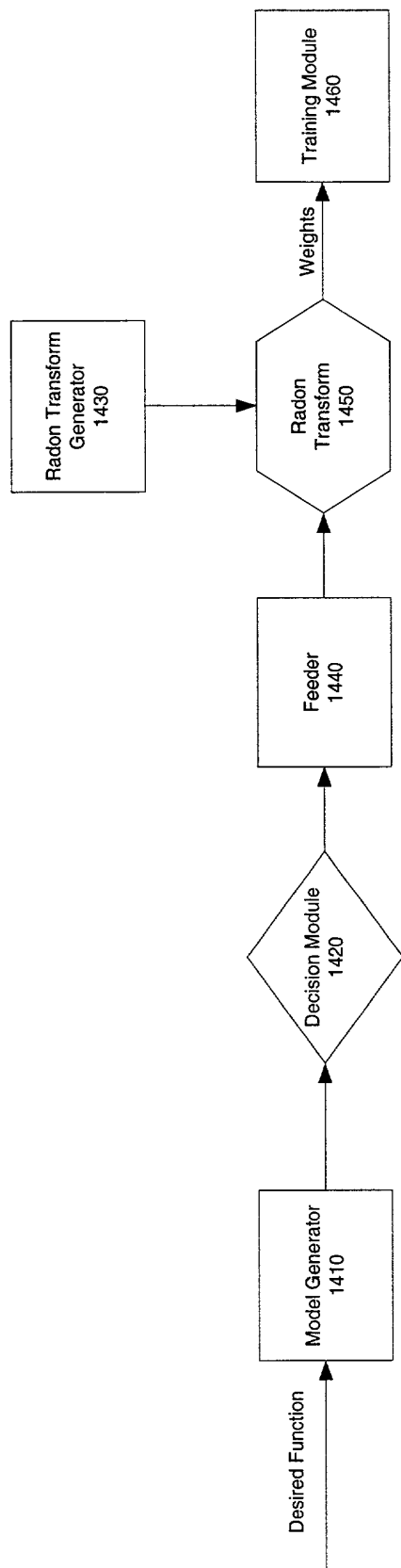


Figure 13

FIG. 14 is a block diagram of a system 1400 for training a model. The system 1400 includes a Model Generator 1410, a Decision Module 1420, a Feeder 1440, a Radon Transform 1450, a Radon Transform Generator 1430, and a Training Module 1460. The Model Generator 1410 receives a Desired Function as input and outputs a model to the Decision Module 1420. The Decision Module 1420 outputs a result to the Feeder 1440. The Feeder 1440 outputs data to the Radon Transform 1450. The Radon Transform 1450 outputs data to the Training Module 1460. The Radon Transform Generator 1430 outputs data to the Radon Transform 1450. The Training Module 1460 outputs Weights to the Radon Transform 1450.

1400



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Figure 14